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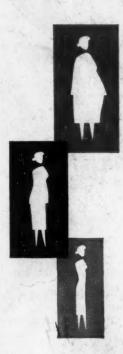




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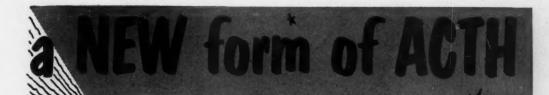


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# American Journal of Obstetrics and Gynecology

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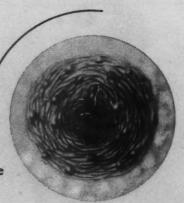
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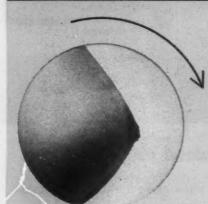


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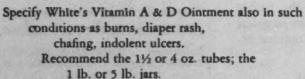


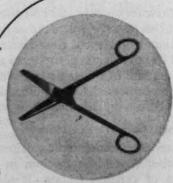
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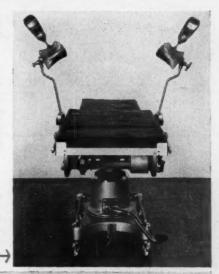
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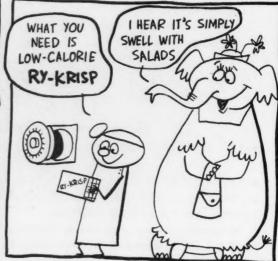


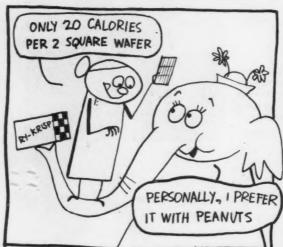
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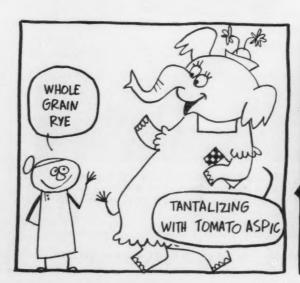
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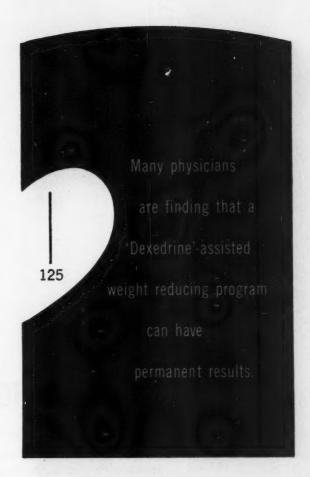






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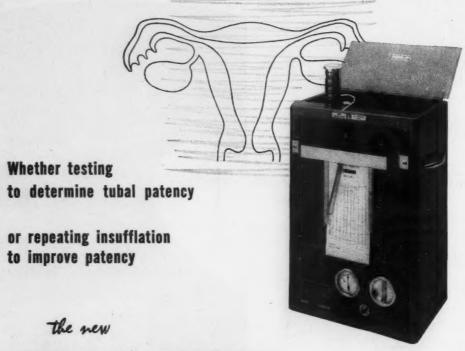
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Photomicrographs (unretouched) by
J. Thomas, Stamford Laboratory of the
Research Division of the American
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Method used: dark field, transmitted bright field illumination, 120 x Material used: medium chromic gut size 5.0

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see exhibit on next page

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# Photomicrography shows why D & G gut is more flexible



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Photomicrographs (unretouched) by E. J. Thomas, Stamford Laboratory of the Research Division of the American Cyanamid Company, Stamford, Conn.

Method used: dark field, reflected illumination, focus on crest of surface, 32 x. Material used: medium chromic gut, size 00.

see exhibit on previous page

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1, Lund, C.J.: Am. J. Obst. & Gynec, 62:947 (Nov.) 1951.

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1. Bradley, J. E .: Mod. Med. 20:71, N

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This is how pamabrom (an ingredient of Pambromal) promotes diuresis. Subjects were given 1000 cc. of water and injected with antidiuretic hormone (pitressin). When pamabrom was administered, the water-retaining effect of the antidiuretic hormone was almost completely neutralized.

(Bickers, W., and Woods, M.: New England J. Med. 245: 453, 1951)

#### 2. controls nervous system lability

Pambromal contains both dextro-amphetamine sulfate and carbromal, a reliable sedative. In addition to controlling fluid retention, Pambromal thus provides efficient sedative and antidepressant actions. Irritability, anxiety, and fatigue are counteracted. Tensions are relaxed and a sense of cheerful well-being is established.

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### A Laboratory and Clinical Report on Adrenosem® Salicylate

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#### History

The first investigation of a hemostat with an action comparable to Adrenosem Salicylate was made by Derouaux and Roskam<sup>1</sup> in 1937. They reported that an oxidation product of adrenalin, adrenochrome (which has no sympathomimetic properties), has prompt hemostatic activity.

It was further found that various combinations of adrenochrome, notably the oxime and semicarbazone, produced stable solutions. But, these were so slightly soluble that sufficient concentration could not be obtained for practical therapeutic use. By combining these adrenochrome compounds in a sodium salicylate complex a stable, soluble form can be obtained. This complex has been given the generic name, carbazochrome salicylate, and is supplied under the trade name Adrenosem Salicylate.

Roskam, in his study entitled "The Arrest of Bleeding," enumerates "the drugs whose efficaciousness as hemostatics have been proved by accurate methods in experimental animals and in healthy men as well.... One is the monosemicarbazone of adrenochrome [Adrenosem Salicylate]."

#### Chemistry

Adrenosem Salicylate is a synthetic chemical. The full chemical name is adrenochrome monosemicarbazone sodium salicylate complex.

#### Pharmacology

Although it is chemically related to epinephrine, Adrenosem Salicylate has no sympathomimetic effects. It does not alter blood components, nor does it affect blood pressure or cardiac rate.<sup>2-7</sup>

Sherber, in an early study,<sup>3</sup> concludes that Adrenosem Salicylate \* "is a potent antihemorrhagic factor in those conditions in which the integrity of the smaller vessels is interrupted, and is superior to any similar material that is now available."

He continues, "From our experience it appears that adrenochromazone complex is indicated in preventing vascular accidents incident to hypertension; in maintaining small vessel integrity; in the preoperative preparation where oozing from a vascular bed is anticipated, as in tonsillectomies, adenoidectomies and prostatectomies; and as an adjunct in the treatment of bleeding from such surgical procedures."

Adrenosem Salicylate may be administered simultaneously (but separately) with any type of anesthetic, anticoagulant, or vitamin K and heparin.

#### A Unique Systemic Hemostat

Clinical investigators<sup>2-7</sup> are in agreement that Adrenosem Salicylate controls bleeding and oozing by decreasing capillary permeability and by promoting the retraction of severed capillary ends. It aids in maintaining normal capillary integrity by direct action on the intercellular "cement" in capillary walls. The interesting work of Fulton<sup>8</sup> confirms this. Adrenosem Salicylate, since it is not a vaso-constrictor, has no effect on large severed blood vessels and arterioles.

Adrenosem Salicylate is being used both prophylactically and therapeutically in thousands of hospitals, and in virtually every type of surgical procedure. It has also proved most useful in dental surgery.<sup>7</sup>

Owings reported on the use of Adrenosem Salicylate in controlling postoperative adenoid bleeding in 102 cases. 4 "We have used 2½ mg.

N

(½ ampule) intramuscularly, 15 minutes before anesthesia for children and 5 mg. (1 ampule) for adults." In only one patient did bleeding occur. Three others showed red blood from the nose and mouth. These patients "were then given 5 mg. intramuscularly, with prompt and complete control. We have also noticed that bleeding stopped more promptly on the operating table."

This is a 1% incidence of postoperative bleeding using Adrenosem Salicylate preoperatively, compared to an incidence of 10% postoperative bleeding in all cases taken from previous records, without Adrenosem Salicylate medication.

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Peele reports on the use of Adrenosem Salicylate in treating 178 patients with 24 different conditions. The drug was first used to control postoperative hemorrhage from the adenoid region. He adds: "The results were so dramatic that since that date [1953] Adrenosem Salicylate has been used postoperatively to reduce bleeding from all otolaryngologic and bronchoesophagolic procedures, to treat postoperative hemorrhage from the tonsil and adenoid regions, and to treat selected cases of epistaxis."

The effectiveness of Adrenosem Salicylate in controlling bleeding and oozing in 330 patients is reviewed by Bacala.6 "Our experience of the effect of carbazochrome salicylate on 317 surgical indications and 13 obstetricogynecological conditions, has been therapeutically encouraging and successful for the control of capillary bleeding. Foremost among the cases studied were 223 tonsillectomies definitely benefited by this metabolic hemostat, making a diminution of the control incidence of posttonsillectomy bleeding of 19.8% down to 7%. It has also been found useful in gastro-intestinal bleeding, cataract extraction, epistaxis, incisional seepage, trans-urethral prostatectomy, menometrorrhagias, cervical ooze, antepartum and postpartum bleeding, threatened abortion, and prevention of capillary hemorrhages during hedulin or dicumerol therapy."

#### Side Effects

All investigators concur that, at recommended dosage levels, Adrenosem Salicylate is free from toxic effects. No cumulative effects attributable to the drug have been reported.

The only side reaction noted has been a transient stinging sensation in the area of injection when Adrenosem Salicylate is used intramuscularly. As one investigator comments: "The brief discomfort which attends the injection of Adrenosem into the gluteal region has not been a significant problem in children or adults as originally anticipated." 5

#### **Indications**

Idiopathic purpura, retinal hemorrhage, familial telangiectasia, epistaxis, hemoptysis, hematuria.

Postoperative bleeding associated with: tonsillectomy, adenoidectomy and nasopharynx surgery; prostatic and bladder surgery; uterine bleeding; postpartum hemorrhage; dental surgery; chest surgery and chronic pulmonary bleeding.

#### Dosage

For recommended dosage schedules, please send for detailed literature.

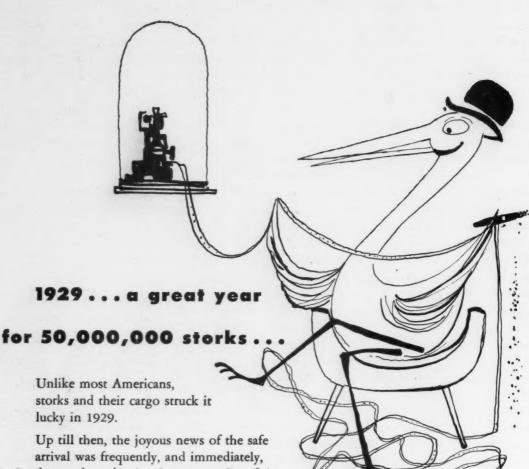
#### Supplied

Ampuls: 5 mg., 1 cc. (package of 5).
Tablets: 1 mg. S.C. Orange, bottles of 50.
Tablets: 2.5 mg. S.C. Yellow, bottles of 50.
Syrup: 2.5 mg. per 5 cc. (1 tsp.), 4 ounce bottles.

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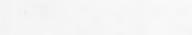
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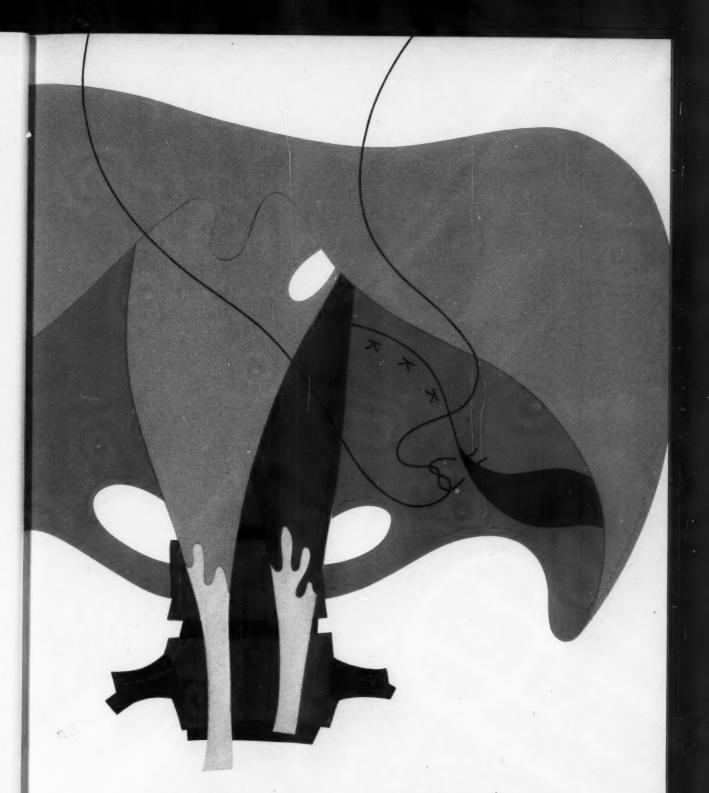
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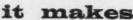
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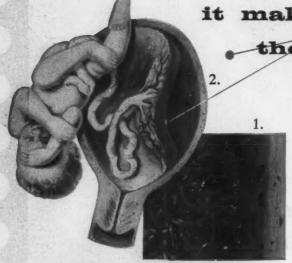
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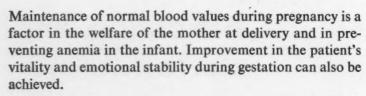
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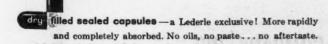
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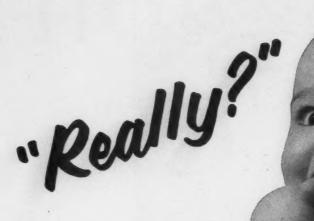


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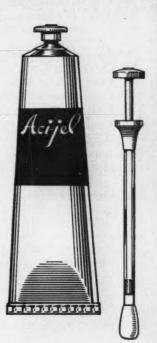
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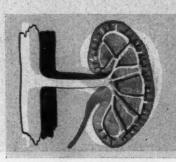
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 Assali, N. S., and Suyemoto, R.: Am. J. Obstet. & Gynec. 64:1021 (Nov.) 1952.

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 Cronheim, G., and Toekes, I.M.: Comparison of Sedative Properties of Single Alkaloids of Rauwolfia and Their Mixtures, Meeting of the American Society for Pharmacology and Experimental Therapeutics, Iowa City, Iowa, Sept. 5, 1955. 4. Moyer, J.H.; Dennis, E., and Ford, R.; Drug Therapy (Rauvolia) of Hypertension. II. A
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Florida Citrus Commission Lakeland, Florida



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